

This is a  
**RAINSCAPING WATER QUALITY  
IMPROVEMENT PROJECT**

*Capturing rain where it falls*



Learn more at  
[www.deercreekalliance.org/  
brentwood\\_wetland\\_arboretum\\_restoration](http://www.deercreekalliance.org/brentwood_wetland_arboretum_restoration)



*This Brentwood Wetland Arboretum Restoration Project is partially funded by Missouri Department of Conservation, Open Space Council STL, Great Rivers Greenway, and Forest ReLeaf of Missouri in addition to Missouri Botanical Garden's Deer Creek Watershed Alliance, via financial support from US EPA Region 7 through the Missouri Department of Natural Resources (subgrant number G22-NPS-09), under Section 319 of the Clean Water Act.*

Stacy Arnold, Watershed Planning Consultant, Deer Creek Watershed Alliance  
Brentwood Wetland Arboretum Project, 2024 BMP Summit



*Photo credit: City of Brentwood*

# Project goals include the following:

- Establish a high visibility stormwater management project that will improve the water quality in Deer Creek.
- Work with the existing topography to enhance what is already there and use a minimal disturbance approach to restore and improve the health of the wetland.
- To reduce stormwater runoff and nonpoint source pollution from reaching Deer Creek from the uphill parking lot and drainage areas.
- Increase and restore the riparian corridor and biodiversity.
- Improve the aesthetic appeal of the wetland property.
- To provide an educational opportunity to enrich the public's understanding of the importance of wetlands.
- Involve the public in hands-on opportunities to engage in improving stream health beyond their own property boundaries.

Recommendations for this wetland restoration project came out of the DCWA Technical Advisory Group Metro Wetland Restoration Design Charrette in April 2017, sponsored by Great Rivers Greenway, City of Brentwood, and other partners.



# Soil Health Specs

- All upper soil profiles (top 8 inches) that will be excavated for any construction needs should be stockpiled in wind-row formations at a height no taller than five feet and reused.
- Once stockpiled, soil should be planted with an annual cover crop (Rye, Oats, Sorghum) to improve soil structure as well as increase mycorrhizal colonization as they germinate and develop.
- Retain all remaining soil on site undisturbed where possible to reduced compaction and preserve native soil and microbial biomass.

# Tree Protection Specs

- Install construction fencing around trees to be protected approximately at the drip line (the farthest extent of the upper branches away from the trunk).
- Any tree roots that extend beyond the limits of the fencing that are over one inch in diameter should be root pruned by cleanly cutting the roots at the edge of the construction/excavation limits.
  - -Root pruning must be accomplished by equipment acceptable by the Certified Arborist (or other reputable licensed horticultural professional with experience in tree preservation)
  - -Roots should not be ripped or torn a backhoe bucket or other equipment.
- Branches should also be trimmed to limit, to the greatest extent possible, damage to the limbs if anticipated construction equipment movement will come in contact with limbs.



# Upcoming Volunteer Events:

- Fall Invasive Removal and Trash Cleanup (as part of River des Peres Trash Bash) at the Brentwood Wetland, Saturday, October 26, 2024
- Fall Tree Planting and Invasive Removal at the Brentwood Wetland, Saturday, November 2, 2024

To learn more visit

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